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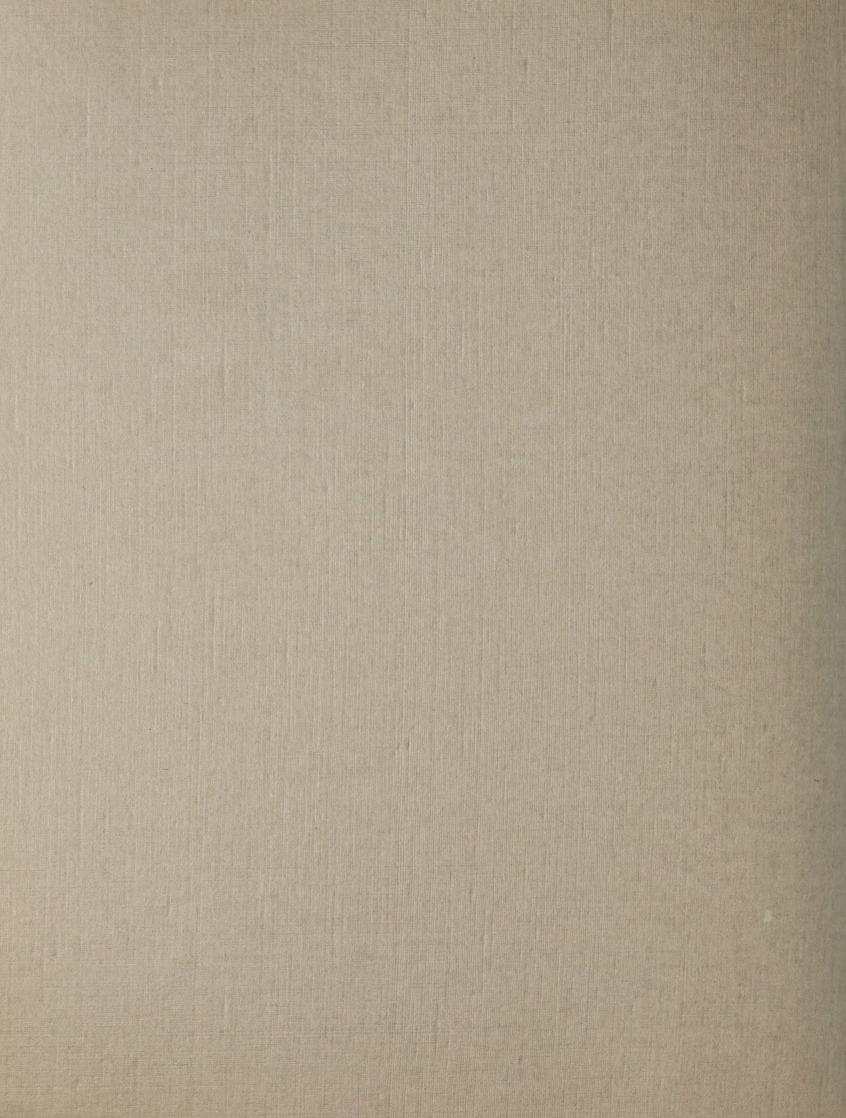
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HYDRO-ELECTRIC INQUIRY COMMISSION

GENERAL REPORT

ESSEX SYSTEM

JOSEPH H. W. BOWER
SECRETARY







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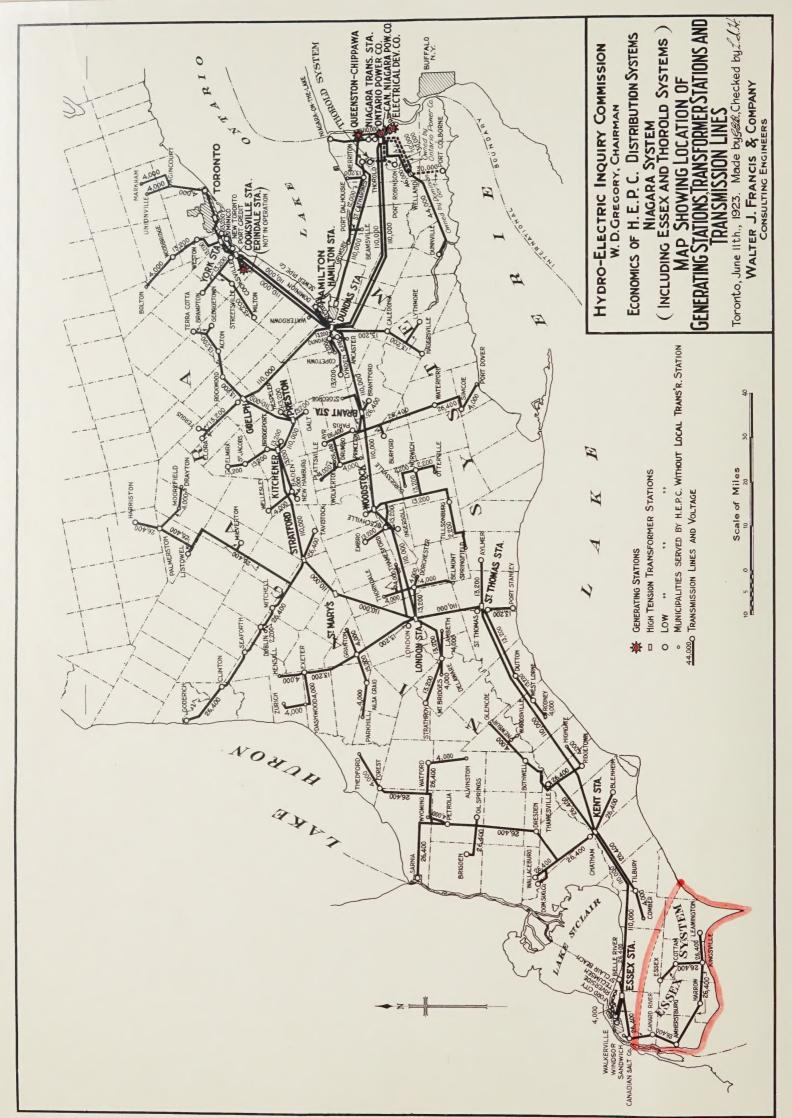
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#### TYDRO-ELECTRIC INQUIRY COMMISSION

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Poronto, Ontario, August 29th, 1923.

Hydro-Electric Inquiry Commission, W. D. Gregory, Haq., Chairman, Toronto, Ontario.

#### re: General Report - Essex System

Mr. Chairman and Contlemen:-

In accordance with your instructions, a general report on the Essex System has been made, along the lines approved of by the Commission on January 2nd. The work has been done under my direct personal supervision as per your instructions.

pany and Mesors. Charkson, Gordon & Dilworth, together with the report on this system by the Commission's Consulting Engineer, Mr. Walter J. Francis, have been used in the preparation of this report. No public hearing was held in connection with this system.

The report falls naturally into two parts. The first part includes sections entitled "Mistorical Sketch", "Physical", "General Recommics" and "Coneral Relations". These sections are largely a recital of facts. The second part of the report entitled "Summary" is morely intended to direct attention to these points which appear to require special consideration by the Commission.

fully checked by a representative of Mesers. Price, Waterhouse a Company. Reparts forming the basis of this report are appended heroto, and in order to facilitate reference to the documents in question, on the right-hand margin of the report throughout will be found abbreviated references.

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In January, 1914, the Essex County Light and Power Company, Limited, which was owned by the Detroit Edison Company, began to deliver power to the Towns of amberstburg and Kingsville and the Village of Harrow. Through the assignment of rights by the Amherstburg Light. Boat & Power Company, Limited, and the Kingsville Electric Light Company, Limited, it had acquired franchises for the distribution of power in these towns. It continued to extend its system one perore the end of 1914 was also distributing power in the Village of Canard River and in the Town of Essex where it had sequired the franchise and rights of the Basex Light and Power Company, Limited. In 1915. transmission lines and distributing systems were built for the Village of Cottam and the Town of Leamington where the franchise of the Leamington Light & Meat Company, Limited, had been taken over. The Besex County Light and Power Company, Limited, supplied these manicipalities with power from their steam generating plant near the City of Windsor. Then the demand for power outgrew the capacity of this station, they arranged with the Canadian Salt Company, Limited, to install steam-turbine-driven generating equipment in the works of the latter company at Sandwich to augment the supply of power.

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the Commission entered into negotiations with the company for the purchase of the system and on May 22nd, 1918, made an agreement with the Assex County Light and Power Company. Limited, by which the Commission acquired certain of their transmission lines, stations and distributing systems.

p.4.

The purchase price was \$226,000.00 paid in bonds of the Commission guaranteed by the Province. The purchase was authorized by Order-in-Council dated April 9th, 1918.

Light and Power Company, Limited, gave the right to transmit or distributed. Power the Townships of Sandwich West, anderson, Malden, Colchester North, Colchester South, Gosfield Borth, Gosfield South and Mersea, and in the Towns of Amherstburg, Essex, Kingsville and Leamington. The transmission lines acquired consisted of about 55 miles of 26,400-velt lines, extending over a considerable part of the County of Essex. They connected the transformer and distributing stations in the Municipalities of Leamington, Kingsville, Essex, Amherstburg, Harrow, Cottam and Canard River. A local distributing system was supplied by each of these stations.

JJ.

The system had been supplied with current at 60 cycles frequency, and it was therefore necessary to make extensive replacements and alterations to the equipment before power could be taken from the Miagara System at 25

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being made an agreement was entered into with the Ganadian Salt Company at the time the system was purchased. By the agreement this company continued to supply power to the system from the steam turbine plant set up in their works at Sandwich, until such time as the Commission was ready to take power from the Riagara System. The Detroit Edison Company also agreed to supply the Canadian Salt Company with the coal required to operate the steam turbine plant. The price paid by the Commission for this power was 1-3/4 cents par kilowett-hour.

p.6

The Colored Panges to 25-cycle equipment were made in all the stations by February 1st. 1919, and on that date the supply of power from the Canadian Salt Company was discentinued and the system was connected with the Essex transformer station of the Hisgara System, and since that date all power has been drawn from that source.

ndf.

The 60-cycle equipment which was replaced by 25-cycle equipment when the system was supplied with power from Hisgara was sold, as was also the old plant and a section of transmission line connecting the fown of Sandwich with the system.

p.7 & 0

The Commission constructed a feeder line to connect this system with the Essex Transformer Station of the Miagara System. It has also converted the old steam plant building into an office and stores building and has

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extended the local distributing systems.

Ommission both as to transmission lines and local distributing systems. There are no contracts with the municipalities by which the Commission is to supply power at cost. The system, therefore, differs from most of the other systems in that none of the municipalities supplied can be classed as "Hydro Municipalities". There is only one rural district, "Leamington District No. 1", on the system and this is supplied from the Leamington substation.

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#### PRYSLCAL

# General

the Escen System may be described as serving the westerly and southerly part of the County of Essex. The transmission lines extend from the Essex transformer station south east of Windsor to Canard River, thence south to Amherstburg, and east from there to Leamington near the easterly boundary of the county. A spur also runs from Kingsville to reach Jottam and the Town of Essex near the centre of the county.

Speaking broadly the Essex System consists of transmission lines and distributing lines serving seven municipalities and one rural district.

WJF.

#### Sources of Power Supply

There are now no local generating stations which are used as a source of supply for the Essex System. The entire supply of power for the system is purchased from the Wiagara System of the Commission and supplied through the Resex transfermer station of that system. The Essex System VJP. p.9 has no high voltage transformer station of its own. A 11.

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#### Miscellaneous Power Plants in the District

as previously indicated in the text the source of supply for the system was originally the steam generating plant of the Resex County Light and Pover Company, Limited. This plant was purchased and dismantled by the Commission, the equipment sold, and the building converted into an office and stores building. There is a steam turbine generating plant in the works of the Canadian Salt Company at Canadian from which power was obtained for the system until February 1st. 1919, when it was connected with the Essex transformer station of the Siagare System after being changed over to take power at 25 cml Pingtead of 60 cycles as previously supplied to it. The plant in the works of the Canadian Salt Company is a steam-turbine-driven generating unit of 750-K.V... 3-phase. 60-cycles. 2,300-volts.

poll

#### Transmission Lines

the transmission lines of the Essex System consist of about 65 miles of 26,400-volt lines and about 8 miles
of 4,000-volt lines. These lines are all of wooden pole
construction and present no extraordinary features. They
were built by the Essex County Light and Power Company in
1914 and 1915 and the tie line to the Essex transformer station of the Hingara System was built by the Commission in
1916 and 1919. It may be noted that the average span is 160
feet whereas the normal span for similar lines on other
systems is about 150 feet.

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#### Transformer & Distributing Stations

Amherstburg and Kingsville are brick buildings about

24' x 26' x 18', those at Canard River, Cottam, Essex

and Harrow are pole type stations, and the station at

Leamington is an outdoor steel structure. At Amherstburg,

Kingsville and Leamington the voltage is reduced to 4,000,

at Essex and Harrow to 2,300, and at Canard River and Cottam

to 230 volts for local distribution.

The stations are all of small capacity, Amberstburg being the largest with transformers of 300-K.V.A. capacity and Canard Giver and Yottam the smallest with 25-K.V.A.
capacity. The total transformer capacity of all the stations
amounted to 1,025 K.V.A. on October 31st. 1921.

pel

Details of the different stations are given on page 12 of our Consulting Engineer's report.

#### Local Distributing Systems

between the Commission and the municipalities supplied with power by the Essex System. The Commission continues to operate the distributing systems and to supply power under the franchises granted to the Essex County Light and Power Company or assigned to it by other companies, all the rights

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when the system was bought from the Essex County Light and power Company. The accounting for the municipalities of the Essex System is therefore in the general accounts of the wission for the system, and the details for the various municipalities are not given in the annual reports.

WJF. p.18

A map showing transformer stations and transmission lines forms the frontispiece of this report.



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#### ORNERAL ECONOMICS

#### Capital Investment

Under authority of Order-in-Council, the Commission purchased the Essex System from the Resex County
Light, Heat & Power Company for \$226,000 in accordance with
the provisions of an agreement bearing the date of May 22nd,
1918.

The properties acquired comprised cortain transmission lines and stations situated in the County of Essex.

the distribution to be the municipalities of Leamington.

Eingsville, Essex, Amherstburg, Harrow, Cottam and Canard

River and a small amount of equipment, furniture and stores

pertaining to the system as well as franchises, contract

rights and the goodwill of the business as a going concern.

The purchase was completed on June 1st, 1918, and the purchase consideration of \$226,000 was paid in the following bonds of the Commission guaranteed by the Province:

4% 40-year debentures - \$200,000 5% 10-year debentures - 26,000

20 ta 1910m mans a \$226,000 vector

P.4.

The assets were valued as at the date of acquisition by the Engineers of the Commission as follows:

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# Particulars

amount

Transmission Lines
Distributing Stations
Old Plant
Local Distributing System

\$104,099.71 32,779.57 4,464.24 84.656.46

P. V.

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\$226,000.00

plant and equipment was sold or otherwise disposed of, resulting in a net loss of \$13,851.55 on the basis of the Engineers' valuation, which was charged to intangibles. As an offset against this loss certain equipment valued at \$5,806.67 was adapted which was not included in the Engineers' valuation, and this sum together with other amounts resulting from the sale or disposal of certain other properties resulting in a net credit of \$1,158.97, left a balance in the intangible account as of October 31st, 1922, of approximately \$6,900.

Since the acquisition of the system, the Commission has made not additions costing \$167,920.12, which, together with the value of the capital assets in the amount of \$221,890.03 as of June 1st, 1918, makes a total investment as of the close of the fiscal year 1922 of \$389,610.15.

The following is a brief summary of the additions of the company:

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cost of additional equipment purchased and of equipping system with 25 cycle transformers, meters, etc. (less the value credited for 60 cycle equipment withdrawn from use)  Conversion of old steam plant building into office and storehouse building, and for minor installations of equipment	\$62,215.69 15,101.92	
For improvement to existing transmission lines and construction of a feeder line from the Riagara System	30,984.40	
For extensions to seven local distribution  systems -  Sundry small additions -	35,822.65	2.W.
Expenditures Crisc Phe Viscal year ending october 51st, 1922, which we understand	3150,886.13	1922
were made for the most part in consoc- tion with the local distributing systems	17,033.99	Acces.
2 otal -	\$167,920.12 ************************************	

The following is a table of the capital cost per horse-power purchased:

Trans	mission	Lines	owit-	3100
	forming			
tri	buting !	sasion	-	66
Local	Distri	buting		
Sys	toms		1894	142
	Lines		sheet.	22
Misce	llameon		400	12

WJF. p.21

\$342

Our Consulting Engineer states that "the high capital cost per horse-power is due to the comparatively

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Agent warn your patents wanted and attention on playful to the set of the street of the payout the time area laffigue great length of transmission lines for a system using so little power and to the fact that all the local distributing systems are included in the capital costs".

# Accounts Receivable

Clarkson, Gordon & Dilworth, that the accounts receivable in the amount of \$3,993.96 as of October 31st, 1928, are all considered collectible.

### Materials and Supplies

sente materials and upplyes on hand in the storehouses of the Basex System and the values placed thereon are considered fair by the Commission's Auditors.

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# Debentures Issued for and Sash Advanced to the Essex System

The following is a summary of the debentures issued for and cash advanced to the Assex System by the Commission and the Province:

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Debentures of the Commission guarantsed by the Province given in payment of the purchase price.

4% 40-year debentures maturing June 1st, 1958, \$200,000.00 5% 10-year debentures maturing June lat, 1928,

26,000.00

3226,000.00

Cash advanced from the renowal and other reserve funds in the hands of the Commission

114,171.63

Cash advanced by the Province of Ontario for the purpose of the Essex System

22,000,00

5362,171.65

Less: Sinking Fund accumulations to October Slat, 1922

20,211.54

Leaving a not total of

Tatal

8341,960.09

It might be well to point out that interest is being charged on the monies advanced to the Essex System by the Commission at the current rates charged to the Commission by the Province.

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had been by heat as you become at making the

# Reserve for Renewals

The balance in the reserve for renewals at October 31 st, 1922, amounted to \$47,954.64, which comprises the following: 公司於 最为自动的主教自然的 超相反主播的 6

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Pariod	Angual Provision	Interest at 4%	Torether	o constitution and a speciar administration
Five months ending October 31, 1918 Fiscal year ending	<b>\$3,716.17</b>		\$3,716.17	P.W. 12. 1922 Acets
0otober 31st, 1919 1920 1921 1922	9,883.96 12,759.47 13,732.40 7,380.96	\$148.65 549.95 1,062.33 1,667.36	10.032.61 13.309.42 14.814.73 9.048.32	
par manufacture, 2007	\$ 47,472.96	\$ 3,448.29	50,921.25	
Deduct -			2.967.21	

were provided by an annual charge of 4% of the capital investment together with interest at the rate of 4% per annual on the balance of the reserve, while during the fiscal year ending October 31st, 1922, additions to the reserve were made on the basis of 2% of the capital investment with interest added at 4% per annum. This reduction in the renewal rate was given effect in the year 1922 and was not made retroactive.

Balance, October 31st, 1921

In respect of the adequacy of the renewal reservo.

"It is stated that it is the practice of the Commission to maintain the system in a condition of economical production which is stated to be about 75% as good as its original new condition and that the expense of doing so is charged to maintenance."

"At October 31st, 1921, the depreciable capital was about \$372,000 and 25% of this amount is \$93,000. So long as the practice of charging

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to maintenance all expenditures necessary to keep the plant up to 75% of its new condition is continued. this amount of \$95,000 would be all that the renewals reserve would have to cover. The renewals reserves at October 31st, 1921. amounted to \$41,685 which appears to be ample; and, if the present rate of making annual additions to the reserves be maintained with interest compounded in the usual way, the renewals reserves soon will become unnocessarily large."

wJF. p. 50

our Consulting Engineer apply to conditions in effect at October 31st. 1921, when the provisions were being set aside for renewals at the rate of 4% of the capital investment with interest at 4%. As pointed out previously. during the fiscal year ending October 31st, 1922, the Commission reduced the 4% rate to 2%.

# Reserve for Binking Pund

Done mobiles begunder Shirty and

The balance in the reverve for sinking fund at October 31st, 1922, amounted to \$20.211.54. The sinking fund has been provided on a basis sufficient to retire the \$226,000 of debantures issued for the system at their respective maturities.

In respect of the establishment of the sinking fund, Mr. Clarkson states as follows:

"With the purchase price of the Essex System
paid for by the issue of bonds of the Commission
guaranteed by the Province of Shtario, the
provisions of the Power Commission Act do not
appear to require that sinking funds be established to meet the same - this for the
reason, as I am advised by legal counsel, that
the guarantee of such bonds by the Province
does not constitute an advance within the meaning of Section 23 of the Act. With no munici-

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palties under contract with the Commission to pay cost for power delivered by the Assex System. there would also appear to be no provisions in the Power Commission act requiring the establishment of Sinking Funds for repayment of the advances by the Province and the Commission to the Essex System.

while not required by the Fower Commission not so to do, the Commission has, for the whole period of operation to October Slat, 1921, included sinking fund instalments - of amount sufficient to meet the bonds given in purchase of the system at the maturity thereof."

the following is a summary of the reserve from the commencement of operations to October 31st, 1923:

Amounts provided out revenue:

10	Octobe	6136.	191	8		ot, 1918,	\$1,778.97
Tear	ending	Cotober	JI	様な		1919	4,269.54
		October				1920	4,269.54
		October				1921	4,269.54
		October				1922	4,269.54
Add		nt orost					1,354,41
		400	0	die	esti.	*	8 20,211.54

P.W. p.11 1922

The Commission has not established any sinking fund in respect of the cash advanced to the system by it and the Province amounting to \$136.171.63 as at October 31st, 1922.

# Dalance Sheet

The following is a statement of the assets and liabilities of the system as of October 31st, 1922:

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strained balance follows.

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#### ASSETS

Transmission Lines, Transformer Stations	
and local Distribution Systems	\$387,411.28
Furniture and Equipment:	
Office Furniture that he was a set (\$1,136.78	
Motor Trucks 680.00	
Tools promised for the promise years and dry byte to 552.09	2.568.87
Enterial and Supplies	13,846.74
Accounts Receivables, we could prove an absorbly of the	
Consumers Ascounts Power Light \$2,218.15	
Consumers Accounts Sundry	
Supplies 1,014.15	
Mortgage Receivable on property	
3014 1,011.66	
84.248.96	Responsible to the second of the second
Less reserve for doubtful	\$1 a
accounts 250.00	3.998.96
Operating Deficit:	0,000100
Balance forward October 31,1921 \$32,766.52	
Het profit for your popular	
Gelober 31, 22 29,188.00	8,578,32
ear 44 - Vintry - Nichoppin No. and a debug No. population and an experience of the country of contract of the country of the	
Walker Total Assots	0 411,229.17
	epiped-kon-originjulgan to isan terdirectorio, villa, valence zirigin 1979; iciligilarush

1922 Acots.

#### LIABILITING

Cash Advances from the Province of Ontario 22,000.00  Cash Advances from the renewal and Other reserve funds in the hands of the Commission 114.171.65  Leas - Sinking Fund on deposit 20,211.54 \$541,960.09  Consumers Deposits 1,103.50 Reserve for Sinking Fund 20,211.54 Reserve for Renewals 47.954.04	Woenl Linbilities	3 411.229.17
Cash Advances from the Province of Ontario 22,000.00  Cash Advances from the renewal and other reserve funds in the hands of the Commission 114,171.65  \$362,171.65	Reserve for Sinking Fund	20,211.54
Cash Advances from the Province of Ontario 22,000.00  Cash Advances from the renewal and other reserve funds in the hands of the Commission 214,171.65  \$362,171.65	therewith 20,211.54	\$541,960.09
Cash Advances from the Province of Ontario Cash Advances from the renewal and other reserve funds in the hands of the Commission  22,000.00		1000
Cash Advances from the Province of 22,000.00 Cash Advances from the renewal and		790700
The market of the state of the	Cash Advances from the renewal and	S. Maryl H. S.

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#### Results of Operation

Sinking Fund

Horse-Power Purchased

Power is supplied to the consumers on the Rasax System at flat rates and in this respect to system differs from the other systems of the Commission, where power is supplied to the municipalities at cost in accordance with the provisions of the Power Commission Act.

The following is an operating account for the period from commencement of operations to October Sist, 1922, showing revenues on the basis of flat rates and the relative operating expenses:

P.T. BE.II 1922

Acots. June lat. Year ending October 51 at toby 1922 1921 1920 1919 Revenue -From Bales of power \$53,696 305,762 3111.419 \$125,577 \$17,253 and light Profit on sales of 2,405 2.484 3,263 2,556 560 supplies, etc. \$113,824 \$126,061 389.025 317,813 \$56,452 Total Revenue Gost of Operation: 3 39,240 34,875 \$29.895 322,239 \$11,528 Power Purchased Operation, Esintenance, Overhead & General 28.924 33,297 33.174 9,278 24,103 Expenses 19.059 19,100 18,262 15,231 4,199 Interest 7,381 12,759 13.732 3.716 9.884 Renewals 4,269 4,269 4,270 4.270

Profit	or			\$19,295		\$8,551	\$29,188
	Andreas de la constitución de la		net mellegyegen film von i stelligt der des promisers for men de little enter open socialistische und ellegen	Market Market Control of the Control	and the state of t		
		200		AAG	972	1090	1206

\$75,727

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\$30,500

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\$105,275

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\$96,360

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period from the commencement of operations to October 51st.

1922, may be summarized as follows:

Loss Call Contract	<u> Toar</u>	Mount Amount	
如为数数 新建 東非 原始为如果		\$12,687 19,295 9,335	\$41,517
Less - Profits	1921	8,551 29,188	57,759
Net Loss for	Pariod	190. 120,000	\$ 3,578

account for the coars 1912 and 1922, it will be seen that the annual revenues have increased from \$56,432 to \$128,061 or approximately 127% and the loss of \$19,295 has been converted into a profit of \$29,188.

puring the five months eming October 31st.

1918, and the first three months of the year ending October

51st, 1919, the system purchased power from the Ganadian

Salt Company, Limited, at a cost of life per K.W.M.; since

Pebruary 1st, 1919, the power has been purchased from the

Riagara System, on a cost basis in respect of which the

following table is given:

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	America	DATE	1520
YHLDE	105, L10 105, V4	1918 1919 1919	
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DTILLE (		- 14(145.3)	dimeters.

-881. VII 200 20 6 6 11 20 20 6 6 11 20 20 6

Power Purchased From	Nor se- Power	Potal	Per	
Tear ending October 31,19)	19			
Niagara System Canadian Salt Company	440	\$14,451	\$32.84	
1st, 1919)	rak bar kar si	7.787		
		\$22,236		
ear ending October 31,19	RO			
Miagara System	972	\$29,895	\$50.76	
fear ending October 31,19	21 1070	\$34,875	<b>\$32.01</b>	P. 8

The Collowing to a table of the annual subdivided costs per horse-power purchased together with revenues per horse-power on the basis of deducting profits resulting from the sale of supplies and sundry other income from operating expenses for the years 1919 to 1921 inclusive:

	Fiscal 1919	Years Ending	October 31,
	1718		
Power Purchased	350.50	200.75	\$32.00
peration	8.18	5.01	4.03
gainten ance	16.54	16.59	12.80
verhead and Conoral Exper	24.30	9.38	11.50
Interest	34.60	18.78	17.53
Renewal s	22.44	13,11	12.60
Sinking Fund	9,70	4.39	8,92
MAN SOME WAS SE	enter in the second	THE WAY OF STREET	11 24 12 18
Total Costs per horse-po		\$97.81	\$94.38
Total Revenues per her se		IN THE SHARPS	or which he
Power	122.50	88.25	102.20

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171.0 P.T.	418485	- byai	

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24,444	32 .7 By		I I P F F F

be observed in what respects and to what extents costs have varied between years.

that have been brought about on the system under the Commission's operation and the details in the above table show that
the unit costs in each case have decreased.

#### POWER DATA

Population Served

Spinetic of Shethyl and murtisly

The latest figures available, those for 1921, give the population of the towns on the system as follows:

Amhorstburg 2,500
Essex 1,470
Kingsville 1,827
Leamington 3,669

9.465

population of the district served is about 10,500, the population of Canard River, Harrow, Cottam and the First Concession district would therefore be about 1,000 people. The district served by the system is a good farming country, with small towns and villages well distributed through it but there are no industries located in the district which use power in large quantities. He information has been made available as to the number of consumers on the system or in the different municipalities served by the system.

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#### Growth of Market and Ultimate Sources of Power Supply

The larger centres of population in the district are now all served by the system and any rapid increase in the population served can only come about by the building up of an extensive system of rural distribution.

The power purchased by the system has, however, risen rapidly from 440 horse-power in 1919 to 1,206 horse-power in 1922, and as the phint of saturation for domestic consumption has apparently not by any means been reached it is reasonable to assume that the load will continue to increase, though at a reduced rate, and might reach 2,000 horse-power within file or six years.

which might be taken by industries, requiring large amounts of power, which might locate in the district.

except the steam plant at the Canadian Salt Company's works at Sandwich and this is not now large enough to supply the system. Nor does there appear to be any source of power for the Essex System which might be substituted for Niagara Falls. Power will undoubtedly continue to be supplied to the Essex System through the transmission lines of the Niagara System of the Commission from the plants of the Commission at Niagara Falls.

p.14

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There are no local sources of supply of power

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#### Power Situation

The Commission is the sole distributor of power in the district and is not competing with any private company.

The growth in the load indicates an increasing demand for power which will likely continue for some years at least, as an estimate of the power consumed at present gives a rather low consumption per capita.

P.41

from the Hiagara System and there does not appear to be any other feasible source of supply. Such being the case, it would seem advisable the Rasex System with the Biagara System at some future date when that course will have become practicable.

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#### ONWHAL RELATIONS

# Relation between the Runicipalities and the Commission

The municipalities on the Basex System are in the same position as all private customers of the Commission; a position not unlike that of most of the municipalities on the Contral Octario System; they purchase power from the Commission at flat rates; they have no pecuniary interest in the system; and they are under no liability in respect thereof. They are not "Hydro Eunicipalities" and are not supplied with power "at cost" within the manning of the Power Commission Act.

relationship of purchaser to vendor.

# Relation between the Commission and the Province

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The relation of the Commission to the Province in respect of the Ssex System is identical with their relation in respect of the Thorold System, except that the only municipality on the Thorold System is on a "cost" basis. The system was purchased with bonds of the Commission, guaranteed by the Province. The improvements to the system since acquisition have been financed by the Commission and the Province,— that is, the Commission has advanced cash from renewal and other reserve funds in its hands in the amount of \$114,171.65; and the Province has appropriated and advanced \$22,000 in cash. The

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application by the Commission of reseval and other reserve funds on capital account in connection with systems, other than in respect of which they were established, is commented upon elsewhere in the reports of this Commission. As a matter of fact, the Commission may hope, in respect of this particular system, to recoup these funds out of future profits, but, under ordinary circumstances, the Commission would request the Legislature for an additional appropriation sufficient to make up the deficiency. At all events, it is apparent that in the last analysis the province is in the same position as though it had advanced the full amount expended on improvements, vis: \$156,171.65.

the cuncepalities are under no collateral, contractual liability: the Commission and ultimately the Province receives the profits and is responsible for any lesses in the operation of the system.

Such a relationship between the Commission and the Province is not contemplated by the Power Commission Act.

It would soom that if such a relationship is to subsist, the Act should be amended to provide for such a relationship and to define the relative responsibility of the parties.

The Provincial viewpoint is controd upon ways and means of safeguarding its investment and securing repayment of its advances. Prior to October Slat, 1921, the system had sustained such heavy losses that no funds were available to apply on sinking fund account. During the fiscal year ending October Slat, 1922, a substantial profit was realized, and the Auditor, Mr.

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Clarkson, reports that the Commission is establishing a sinking fund sufficient to retire at maturity the bonds issued by the Commission and guaranteed by the Province as consideration for the purchase.

position that the guarantee of bonds by the Province does not constitute an "advance" within the meaning of Section 28 of the act. It is contended that the nature and adequacy of the sinking fund established to retire the bonds is entirely in the discretion of the Commission. Accordingly, the sinking fund established is not on the thirty-year basis contemplated by the act, but on a forty-year basis cin poet of \$200,000 and on a ten-year basis in respect of \$26,000, which corresponds with the term of the bonds.

The sinking funds to repay the cash advances of the Commission and the Province to the system, amounting at Cotober 31st, 1922, to \$136.171.63, are in a still more anomalous position. To quote from Mr. Clarkson's 1921 report, at page 63, "With no municipalities under contract with the Commission to pay cost for power delivered by the Essex System, there would also appear to be no provisions in the Power Commission act requiring the establishment of sinking funds for repayment of the advances by the Province and the Commission to the Essex System".

In other words, the Commission takes the view that inasmuch as the Essex System is not a "work" within the meaning of the Power Commission Act, and inasmuch as the mundcipalities are not on a cost basis and required to set up sanking funds to

44 galante a particulations at an exception and a soft a compact participants THE RESIDENCE NAMED AND ADDRESS OF THE PARTY THE BULLEGERS HER GOVERNOUS AND STREET WAS THE MAD WHEN THE WAS THE MAD. s or well keep - gale the same and the same of the same and the same and CON BORRE CONSTRUCT ON THE CHEST ON CONTROL WITH B WATER WATER WATER WATER eds to As adiabal to builteam out william ? per la company and the second 建设是自由的自己的 电风点 似是 化人的电子系统 医上 电动性电话 电影 电影性 电电子电影 医医疗电影系统 海绵维美 a an ind admirage on the his hard hard guardiguature als and park-restatues and no som with the same of t saft to mand eat after NAME AND ADDRESS OF TAXABLE PARTY OF PERSONS ASSESSED TO TAXABLE PARTY. THE PERSON NAMED AND POST OFFICE ADDRESS OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER. CHOLINGS OF THE LIBER OF THE OFFI THE R. P. LEWIS CO. LANSING MANY ASSESSMENT OF STREET performance and depth in the latest and the contract of the latest and the latest SERVICE STREET ASSESSED MARKET THE AREAS AND ADDRESS OF THE PARTY ADDRESS OF -NY ROOM DESCRIPTION OF THE PARTY NAMED IN COLUMN TWO IS NOT THE OWNER, THE PARTY NAMED IN THE PARTY NAMED IN THE PARTY NAMED NAME AND ADDRESS OF THE OWNER, THE PARTY OF PERSONS ASSESSED AND ADDRESS OF A STREET, STRE there make any and product and designation of the latter o DESCRIPTION OF REAL PROPERTY OF THE PARTY OF and the first parties and a real particular than a particular for the particular residence of the particular resid AN ADDRESS NAMED OF SELECT OR ADDRESS OF THE PARTY OF THE

repay advances as part of the cost of power, the provisions
of the Act requiring the repayment of "advances" do not apply.

In pursuance of this interpretation of the Act, the Commission
has established no sinking fund to retire these cash advances and to d
date has expressed no intention of doing so. Presumably, if
profits continue to accrue in ensuing years, the Commission will
establish some sort of a sinking fund, but the nature and term
thereof will, it is alleged, be at its discretion rather than
pursuant to the terms of the Act.

It is apparent that legislation must be enacted to safeguard the interests of the Province and generally to give direction to the Commence in the operation of systems such as the Resex System.

Commission Act, so far as practicable, should be declared to apply to systems in the position of the Essex System. To this end, the system should be declared "works" sithin the meaning of the Power Commission Act: the term "advance" as used in the Power Commission Act should be defined to include the guarantee of bonds by the Province; and the Commission should be required to establish sinking funds on a thirty-year basis in respect of all each advances of the Province, including advances to systems which do not include municipalities under "cost contracts" with the Commission.

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#### BUNKARY

## Capital Investment ("General Economics" - p. 9)

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The total investment in the system as of October

31st. 1922. amounted to \$369.810.15 made up of \$167.920.12

expended on the system since its acquisition by the Commission.

the balance being represented by \$221.890.03 shown on the books

of the Commission as the value of the capital assets as at

June 1st. 1918.

### Reserve for Renegale "Conoral Reconomics" - p. 13)

The balance in the reserve for renewals account at October 31st, 1922, amounted to \$47.954.04. During the years 1919, 1920 and 1921 the renewal reserve was provided by an annual charge of 4% of the capital investment together with interest at the rate of 4% per annum on the balance of the reserve. This rate was reduced during the year 1922 to 2%, but was not made retroactive. Our Consulting Engineer in reporting upon the matter and in referring to the 4% provision states:

"If the present rate of making annual additions to the reserve be maintained with interest compounded in the usual way, the renewal reserve soon will become unnecessarily large."

have information as to the reduction that had been made and did not, therefore, refer to the matter.

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#### Reserve for Sinking Fund ("General Moonomics" - p.15)

The total standing to the credit of this reserve as at October 31st, 1922, was \$20,211.54. The Commission has provided sinking fund on two different bases, as follows:

- (a) A yearly sum which will retire the \$200,000 of
  - (b) A sum sufficient to retire the \$26,000 of 5%, 10-year debentures at maturity.

in respect of the cash advanced to the system by it and the Province amounting to \$136,171.53 as of October Sist, 1922. The amount adjanced to the system by the Jommission was taken from renewal and other cash advanced in the hands of the Commission and amounted to \$114,171.63 as at October Sist, 1922; the balance of \$22,000 represents each advanced to the Commission on account of the system by the Province.

# Reserve for Contingencies

Our Consulting Engineer states that,

"No reserve for contingencies had been established at October Slat. 1921, and it would seem to be advisable to set aside such a reserve now or as soon as the system is able to meet all the other operating charges. Power charges should if necessary be slightly increased to allow for the establishment of the reserve for contingencies and when this reserve has been built up by the annual allowances to, say \$8.000 or \$10,000, and the average annual charges against this reserve have been determined by some years of experience, the charge for this reserve in the cent of power might be again reduced."

Results of Operation ("General Economics" - p.18)

Table - "selected descent loss makes attended

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show varying conditions. During the five months during 1918 that the Commission operated the system a loss of \$12,687 was experienced. During 1919 this loss increased to \$19,295 for that year. In 1920 the yearly deficit was reduced to \$9,335.

In 1921 the accounts of the Commission show a profit of \$6,551 and for the year 1922, due largely to the reduction in the removal reserve, decreased operating expenses and increased revenue, this profit was increased to \$29,188 for that year. Thus it will be seen that the Commission is now successfully operating the system and showing very substantial profits.

Sources of Power Supply ("Coneral Moonomics" - p.19)

During the first eight months of operation the system purchased its power from the Canadian Salt Company.

Limited, but since February 1st, 1919, the power has been purchased from the Riagara System on a cost basis. For the fiscal year ending October Slat, 1921, power was purchased from the Riagara System at a rate of \$32.01 per horse-power.

Future Sources of Power Supply ("General Meonomics" - p.22)

The Commission is the sole distributor of power in the district and is not competing with any private company. There are no other sources of power supply available in the district and it will undoubtedly be necessary for the Commission to continue to supply the system with power from the Hisgara System. Such being the case it would seem advisable that the Essex System be merged with the Hisgara System.

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### General Relations ("General Relations" - p.24)

same position as all private custome s of the Commission. They are not hydro municipalities and are not supplied with power at cost within the meaning of the Power Commission Act. The relationship to the Commission is morely the relationship of purchaser to wender.

price, the Province would necessarily be called upon to make good in case of default in the payment of interest and principal of the bonds. The Central Ontario System is owned outright by the Province and optimal by the Commission; the Essex System is owned outright by the Commission. Inasmuch as the Province guaranteed the bonds of the Commission to purchase the Essex System, the liability of the Province in respect of the Essex System is not essentially different from its liability in respect of the Central Ontario System.

as at present, legislation should be enseted to safeguard the interests of the province and the works of the system should be declared as works within the meaning of the Act. In the alternative the Essex System might well be made part of the Nisgara System, of which it now forms a part insofar as its geographical location is concerned.

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